

REMARKS

Summary of the Office Action

Claims 1-13 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,069,620 to Nakamura et al.

Summary of the Response to the Office Action

Claims 5 and 6 have been cancelled without prejudice or disclaimer. Accordingly, claims 1-4 and 7-13 are presently pending.

All Claims Define Allowable Subject Matter

Claims 1-13 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,069,620 to Nakamura et al. To the extent that the Examiner may consider this rejection to still apply to claims 1-13, the rejection is traversed as being based upon a reference that neither anticipates nor suggests the novel combinations of features now clearly recited in the claims.

Exemplary embodiments of the present invention provide a driving method of LCD using an OCB cell, in which, during a gate signal applying period of TFT-LCD, a real one frame T for driving the liquid crystal consists of a data voltage applying frame Td and a maintenance voltage applying frame Tm which occurs subsequent to the data voltage applying frame Td, the method comprising the steps of: (a) applying a voltage Vd corresponding to a read data during the data voltage applying frame Td, which is a data applying time in the real one frame T; and (b) applying a voltage Vm for maintaining a bend state and preventing a restoration to a splay state,

during the maintenance voltage applying frame T_m , which is a maintenance time in the real one frame T . In other words, exemplary embodiments of the present invention have a real one frame T for driving the LCD divided into two segments in which a first portion is a data voltage applying frame T_d and the second portion is a maintenance voltage applying frame T_m . For example, claim 1 recites, amongst other features, “wherein the real one frame for driving the liquid crystal includes the data voltage applying frame and the maintenance voltage applying frame subsequent to the data voltage applying frame, and the data voltage applying frame is a data applying time and the maintenance voltage applying frame is a maintenance time, and the data voltage applying frame and the maintenance voltage applying frame are determined by a period of a signal applying to a gate of the liquid crystal display.” In another example, claim 7 recites, amongst other features, “wherein the data voltage applying frame and the maintenance voltage applying frame are a data applying time and a maintenance time in the real one frame, respectively.”

In contrast, Nakamura et al. describes a driving method of an LCD having an OCB cell, by controlling gate on/off periods of a TFT at the start of a display operation such that each pixel is caused to have bend orientation by a strong electric field generated between the gate electrode and the common electrode. Applicant respectfully submits that Nakamura et al. does not describe or show a real one frame for driving the liquid crystal including a data voltage applying frame and a maintenance voltage applying frame. Further, Nakamura et al. does not describe or show a maintenance voltage applying frame subsequent to the data voltage applying frame.

M.P.E.P. § 2131 states “[t]o anticipate a claim, the reference must teach every element of

the claim.” Applicant respectfully submits that Nakamura et al. neither anticipates nor suggests all of the features recited in independent claims 1 and 7. Accordingly, withdrawal of the rejection of claims 1 and 7 under 35 U.S.C. §102(e) is respectfully requested. Furthermore, Applicant respectfully asserts that dependent claims 2-4 and 8-13 are allowable at least because of their respective dependence on independent claims 1 and 7.



ATTORNEY DOCKET NO.: 054358-5003
Application No.: 09/891,504
Page 9

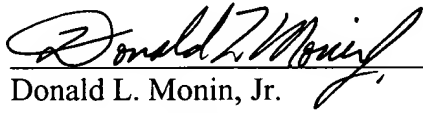
CONCLUSION

In view of the foregoing, Applicant respectfully requests reconsideration and the timely allowance of the pending claims. Should the Examiner feel that there are any issues outstanding after consideration of the response, the Examiner is invited to contact the Applicant's undersigned representative to expedite prosecution.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 50-0310. If a fee is required for an extension of time under 37 C.F.R. 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

MORGAN, LEWIS & BOCKIUS LLP

By: 
Donald L. Monin, Jr.
Reg. No. 47,256

Dated: January 5, 2004

Customer No.: 009629
MORGAN, LEWIS & BOCKIUS LLP
1111 Pennsylvania Avenue, N.W.
Washington, D.C. 20004
Telephone: 202-739-7000
Facsimile: 202-739-3001

RECEIVED

JAN 07 2004

Technology Center 2600